

WHAT IS CLAIMED IS:

1 1. A method for providing user location information for a personal information
2 management program, comprising:
3 generating position coordinates of a wireless device and time information indicating a
4 time when the position coordinates were generated, wherein a user is associated with the
5 wireless device; and
6 processing the position coordinates and time information to determine information on
7 locations and associated time periods, wherein for each determined location and associated
8 time period, the user of the wireless device was located at the location for the associated time
9 period.

1 2. The method of claim 1, wherein the position coordinates and time information
2 are generated at the wireless device, further comprising:
3 transmitting the generated position coordinates and time information to a server; and
4 storing, with the server, the generated position coordinates and time information in a
5 database, wherein the server processes the position coordinates and time information to
6 determine the locations and associated time periods where the user was present.

1 3. The method of claim 1, wherein the position coordinates and time information
2 are generated at the wireless device, wherein the wireless device processes the position
3 coordinates and time information to determine the locations and associated time periods where
4 the user was present, further comprising:
5 transmitting, with the wireless device, the determined locations and associated time
6 periods to a server;
7 storing, with the server, the determined locations and time periods in a database.

1 4. The method of claim 1, further comprising:
2 providing a plurality of location boundaries defining multiple location coordinates;
3 for each location boundary, providing a location description including information
4 describing the location boundary;
5 for each generated position coordinate, determining whether the position coordinate is
6 included in one of the provided location boundaries, wherein at least one determined location
7 comprises one predefined location boundary including position coordinates, and wherein the
8 information generated on the at least one location includes the location description for the
9 predefined location boundary comprising the location.

1 5. The method of claim 4, wherein at least one location boundary and associated
2 location description is provided by:
3 receiving position coordinates from the wireless device defining one location boundary;
4 and
5 receiving a location description from the wireless device for the defined location
6 boundary.

1 6. The method of claim 4, wherein at least one location boundary and associated
2 location description is provided by:
3 receiving location boundary and location description information from a transmitter.

1 7. The method of claim 6, further comprising:
2 associating, with the wireless device, the location description information with the
3 generated position coordinates within the location boundary received from the transmitter; and
4 transmitting, with the wireless device, the position coordinates, associated time
5 information, and associated location description to a server, wherein the server processes the
6 position coordinates and time information to determine location boundaries including the

7 position coordinates, and wherein the information generated on the locations includes the
8 location description provided by the transmitter for the location boundary comprising the
9 location.

1 8. The method of claim 1, wherein position coordinates and time information are
2 generated by multiple wireless devices, wherein each wireless device is associated with one
3 user, further comprising:
4 receiving position coordinates and time information from multiple wireless devices; and
5 storing the position coordinates and time information in a database with information
6 associating each position coordinate and time information with one user.

1 9. The method of claim 8, wherein processing the position coordinates and time
2 information to determine information on locations and associated time periods further
3 comprises:
4 for each user, determining a series of position coordinates included within one
5 predefined location boundary, wherein a location description is associated with each predefined
6 location boundary, and wherein the determined location comprises the predefined location
7 boundary including the series of position coordinates, and wherein the information generated on
8 the locations includes the location description.

1 10. The method of claim 1, further comprising:
2 processing the position coordinates and time information to determine whether a change
3 in a series of position coordinates indicates a predefined activity occurring during an activity
4 time period during which the position coordinates were generated;
5 determining activity time periods that are within the selected time interval; and
6 generating information on the predefined activities for activity time periods within the
7 selected time interval.

1 11. The method of claim 1, further comprising:
2 receiving a request for information on the user for a selected time interval;
3 determining time periods associated with locations that are within the selected time
4 interval; and
5 generating information on the locations and associated time periods that are within the
6 selected time interval.

1 12. The method of claim 11, further comprising:
2 transmitting the generated information to an initiator of the request for information to
3 enable the initiator to display the location information and time periods where the user of the
4 wireless device was located for the time interval.

1 13. The method of claim 12, wherein the initiator requesting the information
2 comprises a program installed on a computer, and wherein the generated information is
3 transmitted over the Internet to the computer.

1 14. The method of claim 12, wherein the initiator requesting the information is the
2 wireless device, and wherein the wireless device displays the generated information for the
3 requested time interval.

1 15. The method of claim 12, further comprising:
2 determining scheduled events for the user within the time interval; and
3 generating information on the scheduled events within the time interval to enable the
4 initiator to display information on the scheduled events along with the geographic locations
5 where the user was located during the time interval.

1 16. The method of claim 1, wherein each position coordinate is expressed as an x,
2 y, z coordinate.

1 17. The method of claim 1, further comprising:
2 providing information on the determined locations comprising one of at least text, audio,
3 image, and video.

1 18. A method for generating a calendar for a personal information management
2 program, comprising:
3 receiving selection of a time interval;
4 for the selected time interval, determining position coordinates of a wireless device and
5 time information indicating a time when the position coordinates were generated, wherein a user
6 is associated with the wireless device; and
7 processing the position coordinates and time information to determine information on
8 locations and associated time periods, wherein for each determined location and associated
9 time period, the user of the wireless device was located at the location for the associated time
10 period;
11 displaying information on the determined locations and time periods where the user of
12 the wireless device was located for the selected time interval.

1 19. The method of claim 18, further comprising:
2 determining scheduled events for the user within the selected time interval; and
3 displaying information on the scheduled events within the time interval adjacent to the
4 displayed information on the determined locations and time periods where the user was located
5 for the selected time interval.

1 20. The method of claim 18, wherein the selected time interval comprises a selected
2 time period of a user selected day.

1 21. The method of claim 18, wherein the selected time interval comprises a default
2 time period for a current day.

1 22. The method of claim 18, wherein the information is displayed in a calendar
2 Graphical User Interface (GUI).

1 23. A system for providing user location information for a personal information
2 management program, comprising:
3 means for generating position coordinates of a wireless device and time information
4 indicating a time when the position coordinates were generated, wherein a user is associated
5 with the wireless device; and
6 means for processing the position coordinates and time information to determine
7 information on locations and associated time periods, wherein for each determined location and
8 associated time period, the user of the wireless device was located at the location for the
9 associated time period.

1 24. The system of claim 23, wherein the position coordinates and time information
2 are generated at the wireless device, further comprising:
3 means for transmitting the generated position coordinates and time information to a
4 server; and
5 means for storing, with the server, the generated position coordinates and time
6 information in a database, wherein the server processes the position coordinates and time
7 information to determine the locations and associated time periods where the user was present.

1 25. The system of claim 23, wherein the position coordinates and time information
2 are generated at the wireless device, wherein the wireless device includes the means for
3 processing the position coordinates and time information to determine the locations and
4 associated time periods where the user was present, further comprising:

5 means for transmitting, with the wireless device, the determined locations and
6 associated time periods to a server; and

7 means for storing, with the server, the determined locations and time periods in a
8 database.

1 26. The system of claim 23, further comprising:

2 means for providing a plurality of location boundaries defining multiple location
3 coordinates;

4 means for providing, for each location boundary, a location description including
5 information describing the location boundary;

6 means for determining, for each generated position coordinate, whether the position
7 coordinate is included in one of the provided location boundaries, wherein at least one
8 determined location comprises one predefined location boundary including position
9 coordinates, and wherein the information generated on the at least one location includes the
10 location description for the predefined location boundary comprising the location.

1 27. The system of claim 26, wherein the means for providing the location
2 boundaries and associated location descriptions performs:

3 receiving position coordinates from the wireless device defining one location boundary;
4 and

5 receiving a location description from the wireless device for the defined location
6 boundary.

1 28. The system of claim 26, wherein the means for providing the location
2 boundaries and associated location descriptions performs:
3 receiving location boundary and location description information from a transmitter.

1 29. The system of claim 28, further comprising:
2 means for associating, with the wireless device, the location description information with
3 the generated position coordinates within the location boundary received from the transmitter;
4 and
5 means for transmitting, with the wireless device, the position coordinates, associated
6 time information, and associated location description to a server, wherein the server processes
7 the position coordinates and time information to determine location boundaries including the
8 position coordinates, and wherein the information generated on the locations includes the
9 location description provided by the transmitter for the location boundary comprising the
10 location.

1 30. The system of claim 23, wherein position coordinates and time information are
2 generated by multiple wireless devices, wherein each wireless device is associated with one
3 user, further comprising:
4 means for receiving position coordinates and time information from multiple wireless
5 devices; and
6 means for storing the position coordinates and time information in a database with
7 information associating each position coordinate and time information with one user.

1 31. The system of claim 30, wherein the means for processing the position
2 coordinates and time information to determine information on locations and associated time
3 periods further performs:

4 for each user, determining a series of position coordinates included within one
5 predefined location boundary, wherein a location description is associated with each predefined
6 location boundary, and wherein the determined location comprises the predefined location
7 boundary including the series of position coordinates, and wherein the information generated on
8 the locations includes the location description.

1 32. The system of claim 23, further comprising:
2 means for processing the position coordinates and time information to determine
3 whether a change in a series of position coordinates indicates a predefined activity occurring
4 during an activity time period during which the position coordinates were generated;
5 means for determining activity time periods that are within the selected time interval; and
6 means for generating information on the predefined activities for activity time periods
7 within the selected time interval.

1 33. The system of claim 23, further comprising:
2 means for receiving a request for information on the user for a selected time interval;
3 means for determining time periods associated with locations that are within the selected
4 time interval; and
5 means for generating information on the locations and associated time periods that are
6 within the selected time interval.

1 34. The system of claim 33, further comprising:
2 means for transmitting the generated information to an initiator of the request for
3 information to enable the initiator to display the location information and time periods where the
4 user of the wireless device was located for the time interval.

1 35. The system of claim 34, wherein the initiator requesting the information
2 comprises a program installed on a computer, and wherein the generated information is
3 transmitted over the Internet to the computer.

1 36. The system of claim 34, wherein the initiator requesting the information is the
2 wireless device, and wherein the wireless device displays the generated information for the
3 requested time interval.

1 37. The method of claim 34, further comprising:
2 means for determining scheduled events for the user within the time interval; and
3 means for generating information on the scheduled events within the time interval to
4 enable the initiator to display information on the scheduled events along with the geographic
5 locations where the user was located during the time interval.

1 38. The system of claim 23, wherein each position coordinate is expressed as an x,
2 y, z coordinate.

1 39. The system of claim 23, further comprising:
2 means for providing information on the determined locations comprising one of at least
3 text, audio, image, and video.

1 40. A system for generating a calendar for a personal information management
2 program, comprising:
3 means for receiving selection of a time interval;
4 means for determining, for the selected time interval, position coordinates of a wireless
5 device and time information indicating a time when the position coordinates were generated,
6 wherein a user is associated with the wireless device; and

7 means for processing the position coordinates and time information to determine
8 information on locations and associated time periods, wherein for each determined location and
9 associated time period, the user of the wireless device was located at the location for the
10 associated time period;
11 means for displaying information on the determined locations and time periods where
12 the user of the wireless device was located for the selected time interval.

1 41. The system of claim 40, further comprising:
2 means for determining scheduled events for the user within the selected time interval;
3 and
4 means for displaying information on the scheduled events within the time interval
5 adjacent to the displayed information on the determined locations and time periods where the
6 user was located for the selected time interval.

1 42. The system of claim 40, wherein the selected time interval comprises a selected
2 time period of a user selected day.

1 43. The system of claim 40, wherein the selected time interval comprises a default
2 time period for a current day.

1 44. The system of claim 40, wherein the information is displayed in a calendar
2 Graphical User Interface (GUI).

1 45. An article of manufacture including code method for providing user location
2 information for a personal information management program, comprising:

3 generating position coordinates of a wireless device and time information indicating a
4 time when the position coordinates were generated, wherein a user is associated with the
5 wireless device; and
6 processing the position coordinates and time information to determine information on
7 locations and associated time periods, wherein for each determined location and associated
8 time period, the user of the wireless device was located at the location for the associated time
9 period.

1 46. The article of manufacture of claim 45, wherein the position coordinates and
2 time information are generated at the wireless device, further comprising:
3 transmitting the generated position coordinates and time information to a server; and
4 storing, with the server, the generated position coordinates and time information in a
5 database, wherein the server processes the position coordinates and time information to
6 determine the locations and associated time periods where the user was present.

1 47. The article of manufacture of claim 45, wherein the position coordinates and
2 time information are generated at the wireless device, wherein the wireless device processes the
3 position coordinates and time information to determine the locations and associated time
4 periods where the user was present, further comprising:
5 transmitting, with the wireless device, the determined locations and associated time
6 periods to a server;
7 storing, with the server, the determined locations and time periods in a database.

1 48. The article of manufacture of claim 45, further comprising:
2 providing a plurality of location boundaries defining multiple location coordinates;
3 for each location boundary, providing a location description including information
4 describing the location boundary;

5 for each generated position coordinate, determining whether the position coordinate is
6 included in one of the provided location boundaries, wherein at least one determined location
7 comprises one predefined location boundary including position coordinates, and wherein the
8 information generated on the at least one location includes the location description for the
9 predefined location boundary comprising the location.

1 49. The article of manufacture of claim 48, wherein at least one location boundary
2 and associated location description is provided by:
3 receiving position coordinates from the wireless device defining one location boundary;
4 and
5 receiving a location description from the wireless device for the defined location
6 boundary.

1 50. The article of manufacture of claim 48, wherein at least one location boundary
2 and associated location description is provided by:
3 receiving location boundary and location description information from a transmitter.

1 51. The article of manufacture of claim 50, further comprising:
2 associating, with the wireless device, the location description information with the
3 generated position coordinates within the location boundary received from the transmitter; and
4 transmitting, with the wireless device, the position coordinates, associated time
5 information, and associated location description to a server, wherein the server processes the
6 position coordinates and time information to determine location boundaries including the
7 position coordinates, and wherein the information generated on the locations includes the
8 location description provided by the transmitter for the location boundary comprising the
9 location.

1 52. The article of manufacture of claim 45, wherein position coordinates and time
2 information are generated by multiple wireless devices, wherein each wireless device is
3 associated with one user, further comprising:
4 receiving position coordinates and time information from multiple wireless devices; and
5 storing the position coordinates and time information in a database with information
6 associating each position coordinate and time information with one user.

1 53. The article of manufacture of claim 52, wherein processing the position
2 coordinates and time information to determine information on locations and associated time
3 periods further comprises:
4 for each user, determining a series of position coordinates included within one
5 predefined location boundary, wherein a location description is associated with each predefined
6 location boundary, and wherein the determined location comprises the predefined location
7 boundary including the series of position coordinates, and wherein the information generated on
8 the locations includes the location description.

1 54. The article of manufacture of claim 45, further comprising:
2 processing the position coordinates and time information to determine whether a change
3 in a series of position coordinates indicates a predefined activity occurring during an activity
4 time period during which the position coordinates were generated;
5 determining activity time periods that are within the selected time interval; and
6 generating information on the predefined activities for activity time periods within the
7 selected time interval.

1 55. The article of manufacture of claim 45, further comprising:
2 receiving a request for information on the user for a selected time interval;

3 determining time periods associated with locations that are within the selected time
4 interval; and
5 generating information on the locations and associated time periods that are within the
6 selected time interval.

1 56. The article of manufacture of claim 55, further comprising:
2 transmitting the generated information to an initiator of the request for information to
3 enable the initiator to display the location information and time periods where the user of the
4 wireless device was located for the time interval.

1 57. The article of manufacture of claim 56, wherein the initiator requesting the
2 information comprises a program installed on a computer, and wherein the generated
3 information is transmitted over the Internet to the computer.

1 58. The article of manufacture of claim 56, wherein the initiator requesting the
2 information is the wireless device, and wherein the wireless device displays the generated
3 information for the requested time interval.

1 59. The article of manufacture of claim 56, further comprising:
2 determining scheduled events for the user within the time interval; and
3 generating information on the scheduled events within the time interval to enable the
4 initiator to display information on the scheduled events along with the geographic locations
5 where the user was located during the time interval.

1 60. The article of manufacture of claim 45, wherein each position coordinate is
2 expressed as an x, y, z coordinate.

1 61. The article of manufacture of claim 45, further comprising:
2 providing information on the determined locations comprising one of at least text, audio,
3 image, and video.

1 62. An article of manufacture including code for generating a calendar for a
2 personal information management program by:
3 receiving selection of a time interval;
4 for the selected time interval, determining position coordinates of a wireless device and
5 time information indicating a time when the position coordinates were generated, wherein a user
6 is associated with the wireless device; and
7 processing the position coordinates and time information to determine information on
8 locations and associated time periods, wherein for each determined location and associated
9 time period, the user of the wireless device was located at the location for the associated time
10 period;
11 displaying information on the determined locations and time periods where the user of
12 the wireless device was located for the selected time interval.

1 63. The article of manufacture of claim 62, further comprising:
2 determining scheduled events for the user within the selected time interval; and
3 displaying information on the scheduled events within the time interval adjacent to the
4 displayed information on the determined locations and time periods where the user was located
5 for the selected time interval.

1 64. The article of manufacture of claim 62, wherein the selected time interval
2 comprises a selected time period of a user selected day.

1 65. The article of manufacture of claim 62, wherein the selected time interval
2 comprises a default time period for a current day.

1 66. The article of manufacture of claim 62, wherein the information is displayed in a
2 calendar Graphical User Interface (GUI).

1 67. A computer readable medium for providing user location information for a
2 personal information management program, wherein the computer readable medium includes at
3 least one computer readable data structure comprising:

4 position coordinates of a wireless device and time information indicating a time when
5 the position coordinates were generated, wherein a user is associated with the wireless device;
6 and

7 locations and associated time periods, wherein for each determined location and
8 associated time period, the user of the wireless device was located at the location for the
9 associated time period, and wherein the locations and associated time periods are determined
10 by processing the position coordinates and time information.

1 68. The computer readable medium of claim 67, further comprising:
2 a plurality of location boundaries defining multiple location coordinates, wherein each
3 location boundary includes a location description including information describing the location
4 boundary, wherein for each generated position coordinate, a determination is made as to
5 whether the position coordinate is included in one of the provided location boundaries, wherein
6 at least one determined location comprises one predefined location boundary including position
7 coordinates, and wherein the information generated on the at least one location includes the
8 location description for the predefined location boundary comprising the location.

1 69. The computer readable medium of claim 67, wherein a determination is made
2 of a series of position coordinates included within one predefined location boundary, wherein a
3 location description is associated with each predefined location boundary, and wherein the
4 determined location comprises the predefined location boundary including the series of position
5 coordinates, and wherein the information generated on the locations includes the location
6 description.

1 70. The computer readable medium of claim 69, further comprising:
2 information on predefined activities for activity time periods within the selected time
3 interval, wherein the predefined activities are determined by processing the position coordinates
4 and time information to determine whether a change in a series of position coordinates occurred
5 during an activity time period during which the position coordinates were generated.

1 71. The computer readable medium of claim 67, wherein each position coordinate
2 is expressed as an x, y, z coordinate.

1 72. The computer readable medium of claim 67, further comprising:
2 information on the determined locations comprising one of at least text, audio, image,
3 and video.